



CHESTERFIELD COUNTY WATER AND SEWER SPECIFICATIONS

THIRD EDITION

ADDENDUM #3 - LIST OF CHANGES June 25, 2004

PART I

** PAGE # **	*** CHANGE ***
	Table of Contents – New format.
DS-16	Typographical error.
DS-20	Third paragraph – <i>Replaced</i> “When the residential water pressure at the main is under 40 psi, a 1” County service line will be installed. When (at the probable house site) the peak hour pressure is under 40 psi, a 1” water service from the main to the meter shall be installed and the following note will be added to the plans: “At least a 1” water service from the meter to the house is recommended to be installed and depending on the desired pressure at the house, the builder may need to consider an individual booster pump.”” <i>with the following:</i> “ A 1” County service line will be installed when the residential water service from the main to the meter is 60’ or greater; or the peak house pressure at the main is 40 psi or less. When the peak hour pressure at the probable house site is less than 40 psi and depending on such variables as: house location, number of fixtures, number of finished floors, etc., a note must be added to the plans: “The builder may consider installing a larger plumbing line from the meter to the house and/or installing a booster pump to obtain a desired pressure.” ”

PART II

** PAGE # **	*** CHANGE ***
	Index of Drawings – New format.
FIR-1 (1 of 2)	Changes were made to reference the International Plumbing Code and to clarify Notes B and C.
FIR-1	Changes were made to reference the International Plumbing Code and to clarify Notes B and

(2 of 2)	C. Also changed tap size from ? " to ¾".
FIR-1B NFPA 13D (1 of 2)	Changes were made to reference the International Plumbing Code and to clarify Notes B and C. Also eliminated the ? " tap.
FIR-1B NFPA 13D (2 of 2)	Changes were made to reference the International Plumbing Code and to clarify Notes B and C. Also changed tap size from ? " to ¾".
FIR-3 Sht. 1 of 3	Added requirement for minimum 6" wall thickness for poured in place vaults and at least ¾" rebars. Also changed range of height from top of vault to siamese connection from 18"-24" with average of 24" to 18"-48".
FIR-3 Sht. 2 of 3	Added requirement for minimum 6" wall thickness for poured in place vaults and at least ¾" rebars. Also changed range of height from top of vault to siamese connection from 18"-24" with average of 24" to 18"-48".
MET-6	Added Note #6.
MET-9	Eliminated MET-9 Sht. 2 of 2 Detail and changed Detail MET-9 Sht. 1 of 2 to "MET-9 Reserved for Future Use".
SEW-12	Added new detail for Air Release Valve for Sewer Force Mains.
WAT-2	Added the requirement that a service saddle must be installed on main before connecting the air release valve.
WAT-15 Sht. 2 of 2	Corrected Note (b) to read better.

PART III

** PAGE # **	*** CHANGE ***
	<i>Changed</i> the Table of Contents to reflect changes in Part III.
BF-2	First paragraph – <i>Added</i> the following wording to the last sentence – “substantial completion date and \$_____ dollars per calendar day for each and every day that the said work remains incomplete after the expiration of the Final completion date.”
BF-4	<i>Replaced</i> the “Certification of Non-Collusion” with a new “Certification of Non-Collusion and Signature Sheet” .
G-1 thru G-29	<i>Reformatted</i> entire section due to changes within the General Conditions.
G-1 & G-2	<p>Under G. Completion of the Work – <i>Replaced</i> all of the language under “Completion of the Work” with the following: “Substantial completion shall be defined as the event when the Work has progressed to the point where, in the opinion of the Engineer, it is sufficiently complete, in accordance with the Contract Documents, so that the Work can be utilized for the purposes for which it is intended.</p> <p>Final completion shall be defined as the event that occurs when (1) the Work has been completed, successfully tested and approved in accordance with the Contract Documents, (2) all submittals required by the Contract Documents (including Operation and Maintenance Manuals) have been made, (3) all Punch List items and restoration Work required by the Contract Documents has been completed; and (4) Work is complete and ready for final payment as evidenced by Engineer’s written recommendation for final payment. The Contractor’s use of water or wastewater lines for the purpose of completing the testing of equipment or piping, the tie-in of water or</p>

	wastewater lines, or the continued use of equipment or piping because of tie-ins or testing shall not constitute Completion of the Work until all conditions of this definition have been satisfied.”
G-11	Under 31. Work Outside of Normal Working Hours – <i>Inserted</i> new paragraph #2 with the following – “The contractor may request, in writing, different normal working hours than those stated above. The revised work hours must be agreed upon by the Inspector and approved by the Owner in writing. Work in excess of 40 hours per week shall be considered overtime work.”
G-14	<p>Under 39. Extra Work – Force Account – <i>Replaced</i> B. with the following wording:</p> <p>B. In the event of work covered by unit prices, at a price derived from application of unit prices to the quantities necessary to complete the extra work.</p> <p>C. In the event of work not covered by unit prices, at actual cost plus fifteen percent (15%). If the Extra Work is performed by a previously approved subcontractor, then at actual cost plus fifteen percent (15%) for the subcontractor, and five percent (5%) for the Contractor. Actual cost shall include only the necessary labor (including workmen’s compensation, insurance, premiums and payroll taxes), equipment rental (including fuel and lubrication for equipment used in performing the Extra Work), and materials. Equipment rental cost shall be the amount actually paid by the Contractor for rental of the equipment, pro-rated rental rate for the time the equipment was used to perform the Extra Work, or the pro-rated rental rate for the equipment as shown in the latest rate schedule compiled by the Associated Equipment Dealers, whichever is lower. The Engineer shall determine the Contractor’s actual cost for performing Extra Work, and the Engineer’s determination shall be binding on the Contractor. Under no circumstances shall the Contractor be entitled to any sum of money for performing Extra Work, or for any delays that the Contractor alleges it suffered as a result of performing Extra Work, above actual cost plus 15% (or 15% and 5% when applicable) as outlined above.</p> <p>Change Orders shall be agreed upon prior to beginning Extra Work. No Change Order shall in any manner or to any extent relieve the Contractor or his Surety of any obligation under the contract. All Change Orders given in accordance with the Agreement are a part of the Agreement and are subject to each and every term or requirement of the Agreement.</p>
G-17	<p>Under 44. Liquidated Damages – <i>Replaced</i> paragraphs 3, 4 and 5 with the following:</p> <p>“If the Contractor fails to accomplish Substantial Completion of the Work in accordance with the Contract Documents within the time stated in the Agreement or in any progress schedule or within any time as extended in writing by the Owner, the Contractor shall pay to the Owner the sum of \$_____ for each and every calendar day after the date agreed upon by the parties for Substantial Completion has passed until Substantial Completion of the Work is accomplished.</p> <p>If the Contractor fails to accomplish Final Completion of the Work in accordance with the Contract Documents within the time stated in the Agreement or in any progress schedule or within any time as extended in writing by the Owner, the Contractor shall pay to the Owner the sum of \$_____ for each and every calendar day after the date agreed upon by the parties for Final Completion has passed until Final Completion of the Work is accomplished.</p>

	The above sums are agreed upon by the parties as the liquidated damages, and not a penalty, that the Owner will suffer by reason of the delay by the Contractor in accomplishing Completion of the Work, resulting in the inability of the Owner to use the improvements at the time agreed upon the parties for Completion. The Owner may deduct and retain liquidated damages out of any monies which may be due, or become due, to the Contractor.
G-20 & G-21	Under 51. Monthly Estimates and Retainage – 2 nd paragraph – <i>replaced</i> “on or before the 15 th day of the month following the submission of the monthly estimate” <i>with</i> “within 30 days after of the approved monthly estimate by the owner,”
G-28	Under 61. Environmental Management – <i>added</i> the following words “Section 8 and” .
AG-1	#3. – Replaced “and shall complete the same within _____ calendar days unless the period for completion is extended otherwise by the CONTRACT DOCUMENTS.” with “Work shall be substantially complete within _____ calendar days unless the period for completion is extended otherwise by the CONTRACTOR DOCUMENTS. Work shall be finally complete and ready for final payment within _____ calendar days unless the period for completion is extended otherwise by the CONTRACT DOCUMENTS.”
CO-2	<i>Clarified</i> who should be signing and where.
8-1 thru 8-5	New Section – “Section 8 – Contractor Environmental Activities.”
APP B-5 thru APP B-8	New Section – “VDOT, Chesterfield Residency – April 1, 2004 – Subdivision and Site Construction Plan General Notes.”
APP C-1 & APP C-2	New pages – “Appendix C – Contractor Environmental Checklist.”
APP D-1 thru APP D-4	New pages – “Appendix D – Contractor Environmental Activity Statement.”
APP E-1	New page – “Appendix E – Environmental Management Policy.”
APP F-1 & APP F-2	New pages – “Appendix F – Tracking of Environmental Spills and Releases.”

PART IV

** PAGE # **	*** CHANGE ***
	<i>Revised</i> Table of Contents to reflect changes in Part IV.
APP A-5 thru APP A-8	New Section – “VDOT, Chesterfield Residency – April 1, 2004 – Subdivision and Site Construction Plan General Notes.”

PART V

** PAGE # **	*** CHANGE ***
	<i>Revised</i> Table of Contents to reflect changes in Part V.
V-1-3	<i>Reformatted</i> page.
V-1-4	Under D. Meter (Setters) Yokes - <i>Changed</i> #3 from “For 1½” and 2” Meters” to “For 1½” and 2” Meters (Businesses, etc. with bypass)” .

	<p>Under D. Meter (Setters) Yokes #3 – <i>Added</i> the following:</p> <p style="text-align: center;">For 1½” and 2” Meters (residential and irrigation):</p> <p style="padding-left: 40px;">*a. Ford – for 1½” Meter – VBB76-7-11-66 and for 2” Meter – VBB77-8-11-77</p> <p style="padding-left: 40px;">*b. A.Y. McDonald – for 1½” Meter – 20-609 WWFF 660 for 2” Meter – 20-709 WWFF 770</p> <p style="padding-left: 40px;">*c. Mueller (for both 1½” and 2”) - #1422-00</p>
V-1-8	Under H. Resilient Seated Wedge Tapping Valves – <i>Changed</i> #4 from “Kennedy Model #4950 (for 16” and 30” only)” to “ Kennedy Model #4950 (for 4” and 24” only) ”.
V-1-9	Under M. Water Meter Boxes/Vaults – <i>Deleted</i> “b. Smith Midland Model 550 (for 3” & 4” water meters and assemblies)” and <i>renumbered</i> remaining items.
V-1-11	<i>Reformatted</i> page.
V-1-13	<i>Reformatted</i> page.
V-1-14	Under V. Casing Spacers – <i>Added</i> “ 5. BWM – Model BWM-SS ”.
V-3-10	Under Vaults and/or Meter Boxes - #8. – <i>Added</i> “ WM (3” & 4”) BF ” and <i>reformatted</i> page.
V-3-14	Under Casing Spacers – <i>Added</i> “ 5. BWM Company ”.
V-3-24	Under C. Manufacturers’ Representatives and/or Suppliers - #19. <i>Changed</i> the address for RFS & Associates, Inc.
V-4-3	Under b. Resilient Seated Wedge Tapping Valves – 1) – First sentence – <i>Changed</i> from “Tapping valves shall meet above specifications as referenced in a) except, the body seat rings shall have a clear inside opening sufficient to nominal size of the valve.” to “ Tapping valves shall meet above specifications as referenced in 2.a. above. ”
V-4-14	<p>Under b. General: – <i>Changed</i> (deleted/added) first paragraph as follows:</p> <p>All 1½" and 2" meter setters shall be constructed of seamless threaded red brass pipe, standard Type K hard copper tube (per ASTM B-88-62,) high quality brass (per AWWA C-800,) and leadless solder, and provide horizontal female pipe threads on both front and rear connections. Setters must include irrigation and residential meters (see Part V – Section 4).</p> <p>Under b. General - <i>Changed</i> third paragraph as follows:</p> <p>Meter setters for domestic use at businesses, Doctor or Dentist offices, restaurants, etc., shall be equipped with a valved bypass line and valve for meter maintenance. Setters for residential or irrigation uses etc., shall NOT be equipped with a bypass line.</p> <p><i>Rearranged</i> paragraphs.</p> <p>Under b. Bypass: - <i>Changed</i> first sentence as follows:</p> <p>Meter setters that are equipped with a bypass line and valve shall have an be appropriately sized bypass line with an inverted key or ball type stop threaded directly into the inlet bypass tee fittings.</p>